

**Abstract**

The present invention relates to a method for a rotating electric machine for high voltage, comprising a rotor and a stator having a core and a winding arranged in slots in the stator core, which winding contains the electric field and is designed with an insulated electric conductor (30) comprising at least one current carrying conductor (31) in addition to comprising a first layer (32) surrounding the current carrying conductor, a solid insulation layer (33) surrounding said first layer, and a second layer (34) surrounding the insulation layer. The method is characterized by the stator being cooled, during operation, to a temperature T1, and the stator being heated, when it is out of operation, to a temperature T2. The invention relates also to a corresponding rotating electric machine for performing the method.